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CLAIMS

- 1 1. A method of injection well construction and completion comprising:
2 drilling a borehole through an injection zone of a formation;
3 running, into the borehole, casing including an extendable assembly comprising
4 a fixed portion and a moveable portion, where the moveable portion includes a filter
5 media at its distal end so that the extendable assembly is positioned adjacent a site in the
6 injection zone;
7 extending the moveable portion of the extendable assembly to contact a face of
8 the site forming a conduit between an interior of the casing and the site of the injection
9 zone; and
10 injecting fluids into the injection zone of the formation through the conduit, where
11 the filter media in the distal end of the extendable assembly prevents material from the
12 injection zone of the formation from sloughing into the borehole.
- 1 2. The method of claim 1, further comprising the step of:
2 cementing the casing in place after the extending step, but before the injecting
3 step.
- 1 3. The method of claim 1, wherein an injection pressure exceeds a fracture pressure
2 of the injection zone.
- 1 4. The method of claim 1, wherein the casing further includes a plurality of
2 extendable assemblies so that each assembly is positioned adjacent a site in the injection
3 zone.
- 1 5. The method of claim 4, wherein the plurality comprises between about 1 and
2 about 20 of extendable assemblies per square foot of casing within the injection zone.
- 1 6. The method of claim 4, wherein the plurality comprises between about 1 and
2 about 12 of extendable assemblies per square foot of casing within the injection zone.

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1 7. The method of claim 4, wherein the plurality comprises between about 1 and
2 about 4 of extendable assemblies per square foot of casing within the injection zone.

1 8. A method of injection well construction and completion comprising:
2 drilling the well with a conventional drilling fluid to a point above a target
3 injection zone;
4 displacing the conventional drilling fluid with a "Drill-In Fluid;"
5 drilling the remaining borehole through injection zone;
6 running, into the borehole, casing including an extendable assembly comprising
7 a fixed portion and a moveable portion having a filter media at its distal end so that the
8 extendable assembly is positioned adjacent a site in the injection zone;
9 extending the moveable portion of the extendable assembly to contact the
10 formation forming a conduit between an interior of the casing and the formation; and
11 injecting fluids into the well through the conduit.

1 9. The method of claim 8, further comprising the step of:
2 cementing the casing in place after the extending step, but before the injecting
3 step.

1 10. The method of claim 8, wherein an injection pressure exceeds a fracture pressure
2 of the injection zone.

1 11. The method of claim 8, wherein the casing further includes a plurality of
2 extendable assemblies so that each assembly is positioned adjacent a site in the injection
3 zone.

1 12. The method of claim 11, wherein the plurality comprises between about 1 and
2 about 20 of extendable assemblies per square foot of casing within the injection zone.

1 13. The method of claim 11, wherein the plurality comprises between about 1 and
2 about 12 of extendable assemblies per square foot of casing within the injection zone.

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1 14. The method of claim 11, wherein the plurality comprises between about 1 and
2 about 4 of extendable assemblies per square foot of casing within the injection zone.

1 15. An injection completion system comprising:
2 a well borehole extended into and through an injection zone,
3 a casing run into the borehole and including an extendable assembly comprising
4 a fixed portion and a moveable portion having a filter media at its distal end so that the
5 extendable assembly is positioned adjacent a site in the injection zone and extended to
6 contact a face of the site of the injection zone forming a conduit from an interior of the
7 casing to the injection zone, where the filter media in the distal end of the moveable
8 portion of the extendable assembly prevents material from the injection zone of the
9 formation from sloughing into the borehole
10 well injecting tubing and equipment, and
11 a fluid system for injecting a fluid through the casing and out the conduit into the
12 formation.

1 16. The system of claim 15, wherein the casing further includes a plurality of
2 extendable assemblies so that each assembly is positions adjacent a site in the injection
3 zone.

1 17. The system of claim 16, wherein the plurality comprises between about 1 and
2 about 20 of extendable assemblies per square foot of casing within the injection zone.

1 18. The system of claim 16, wherein the plurality comprises between about 1 and
2 about 12 of extendable assemblies per square foot of casing within the injection zone.

1 19. The system of claim 16, wherein the plurality comprises between about 1 and
2 about 4 of extendable assemblies per square foot of casing within the injection zone.